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PLANT PROTECTION AND QUARANTINE PROGRAMS
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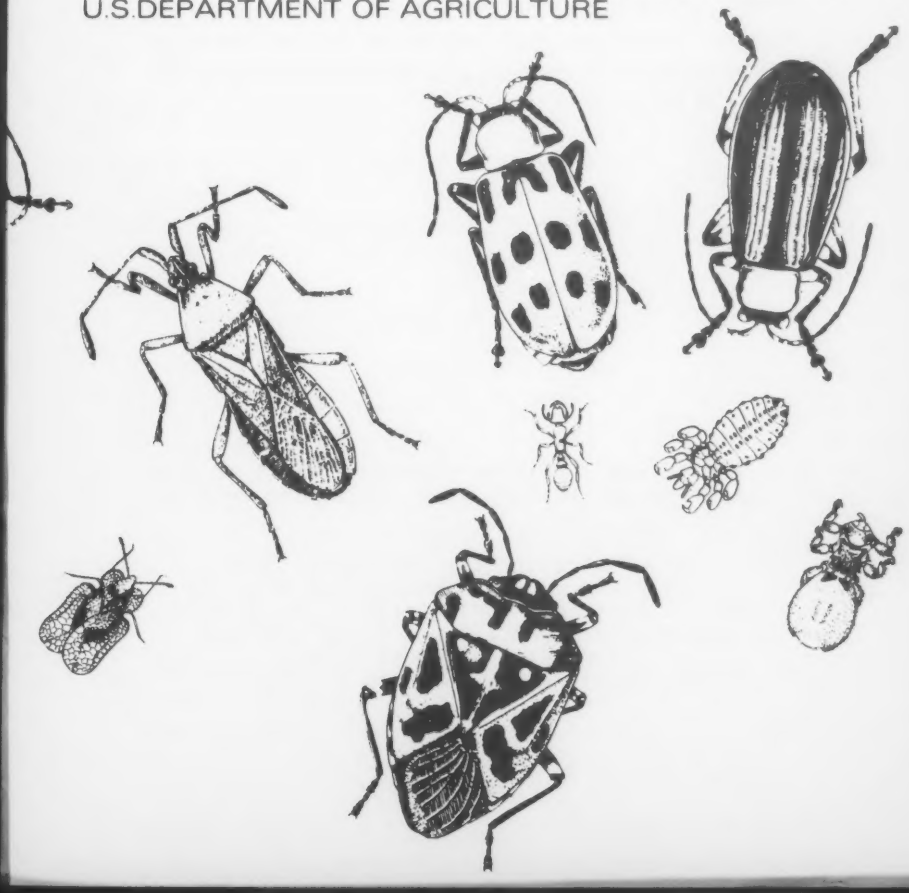

ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS
NEW PEST DETECTION AND SURVEY STAFF

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Service serves as a clearing house and does not assume responsibility for accuracy of the material.

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Volume 25 October 10, 1975 Number 41

COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

Current Conditions

CABBAGE LOOPER very heavy on cole crops in parts of Texas. (p. 809).

HICKORY SHUCKWORM and PECAN WEEVIL heavy on pecans in parts of Texas; former species heavy in parts of Oklahoma. (p. 809).

RED FLOUR BEETLE infested peanuts in Texas. (p. 811).

Detection

● Larvae of MEDITERRANEAN FRUIT FLY found in California. (p. 812).

New State records include a PYRALID MOTH in Michigan (p. 810), and 2 WEEVILS (p. 811), and 3 ANTS (p. 813) in Utah.

For new county records, see page 813-814.

Reports in this issue are for the week ending October 3 unless otherwise indicated.

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WEATHER OF THE WEEK ENDING OCTOBER 5

Reprinted from Weekly Weather and Crop Bulletin supplied by National Weather Service, NOAA.

PRECIPITATION AND TEMPERATURE: The sunshine that greeted most of the Nation on Monday was especially welcome in the East following heavy rains and flooding in that area. A few morning showers sprinkled across the upper Mississippi Valley to the western Great Lakes. At dawn, seasonably cool temperatures dominated much of the country. Readings in the 50's reigned from the Canadian border southward to the Atlantic and Gulf Coast States. In parts of the central Plains, the mercury even skidded into the 20's. Mild weather favored the southern Atlantic Coast States, southern California, and the Desert Southwest. As the afternoon air grew warmer, temperatures edged upward into the 70's from Augusta, Maine, to Los Angeles, California, 60's in the Dakotas, and 80's in the Southeast and Florida. During the day, isolated shower activity occurred in the Carolinas, Georgia, and throughout Florida. Evening rains developed in the central United States mostly in Kansas, Oklahoma, and Texas Panhandle. A cold outbreak lowered the nighttime temperatures on Monday into the 20's and 30's from the Plateau into the northern Plains. Laramie, Wyoming, even measured an inch of snow. On Tuesday morning, colder air moved swiftly southward shoving the mercury to below normal levels throughout the central United States. Notable precipitation on Tuesday took the form of thundershowers from the central Plains to the middle Mississippi Valley, the heaviest rains poured over eastern Kansas and western Missouri. Meantime, sunny skies went uninterrupted in portions of New England and the western United States.

Weather of the week continued on page 816.

SPECIAL INSECTS OF REGIONAL SIGNIFICANCE

ARMYWORM (Pseudaletia unipuncta) - MISSISSIPPI - Averaged 0.2 per square foot in 100 acres of winter wheat in Noxubee County. (Robinson). MISSOURI - This species and Spodoptera frugiperda (fall armyworm) moderate to heavy in fescue in south-central, central, southwest, and west-central areas. Completely defoliated fescue field in southwest area. P. unipuncta light to moderate on alfalfa in central and southwest areas. Larvae 3-17 per 10 sweeps in southwest area. (Munson).

CORN EARWORM (Heliothis zea) - OKLAHOMA - Averaged one per 10 heads on late grain sorghum in Harper, Ellis, and Major Counties. (Okla. Coop. Sur.). GEORGIA - Infested commercially grown greenhouse chrysanthemums in Tift County week ending September 27. (Poole, Barry). MARYLAND - Larval damage to late-planted soybeans well above normal. Losses expected to be slightly heavier than last season. Damaged 10-40 percent of pods in most heavily infested fields on Eastern Shore; loss in most fields within 4-percent range. (U. Md., Ent. Dept.).

GREENBUG (Schizaphis graminum) - WASHINGTON - This species and Rhopalosiphum padi (an aphid) widespread on winter wheat in Klickitat County. Infestations variable. Treatments required in some fields. (Forster, Antonelli).

SPOTTED ALFALFA APHID (Therioaphis maculata) - NORTH DAKOTA - Counts of 100-800 per 100 sweeps on alfalfa in Benson, Eddy, Ramsey, and Towner Counties. Collected and determined by C.G. Scholl. Counts of 100 per 100 sweeps on alfalfa in Adams, Billings, Grant, Golden Valley, Hettinger, Mercer, Oliver, Slope, and Stark Counties. Collected and determined by W.J. Brandvik. All collected September 8-11, 1975. Collected on alfalfa in Pembina and Traill Counties September 15, and in Cavalier, Walsh, Grand Forks, and Nelson Counties September 16. Collected and determined by C.G. Scholl. Taken from alfalfa in Burke County September 29 and in Renville and Bottineau Counties October 2. Ranged 10-140 (averaged 50) per 100 sweeps. Collected and determined by C.G. Scholl. All are new county records. (Brandvik, Scholl).

CORN, SORGHUM, SUGARCANE

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - ALABAMA - Larvae 3 per 15 feet of row in corn stubble near Wedowee, Randolph County. Collected by L.D. Baker September 22, 1975. Determined by H.F. McQueen. This is a new county record. (McQueen). KENTUCKY - Larva taken from taproot of corn plant in Clinton County, October 1, 1975. Collected and determined by D. Barnett. Confirmed by W.W. Gregory. This is a new county record. (Barnett).

EUROPEAN CORN BORER (Ostrinia nubilalis) - NEW HAMPSHIRE - Infested all fallen stalks in small field of field corn west of Durham, Strafford County. Larvae 3-7 (averaged 4) in stalks, whorls, and silk at top of ears, 70 percent fully grown. (Burger).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - NORTH DAKOTA - Single adult collected on corn and determined by C.G. Scholl in Stutsman and Foster Counties September 8, 1975. These are new county records. (Scholl).

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) - NORTH DAKOTA - Single adult collected on corn and determined by C.G. Scholl in Stutsman County September 8, 1975. This is a new county record. (Scholl).

SMALL GRAINS

FALL ARMYWORM (Spodoptera frugiperda) - NORTH CAROLINA - Damaged small grain cover crops across Coastal Plain. Counts heavy on rye in Wilson County, about 95 percent of 5 acres infested. (Jernigan).

FORAGE LEGUMES

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) - NORTH DAKOTA - Adults on alfalfa September 8-11, 1975, in Sioux, Grant, Slope, Stark, Billings, Dunn, and Mercer Counties. Collected and determined by W.J. Brandvik. Collected on alfalfa in Traill County September 15, Collected and determined by C.G. Scholl. One adult on forage legumes in Burleigh County September 26. Collected and determined by W.J. Brandvik. All are new county records. (Brandvik, Scholl).

SOYBEANS

BEAN LEAF BEETLE (Cerotoma trifurcata) - ARKANSAS - Feeding on foliage and pods in scattered soybean fields in Mississippi County. Feeding on surface of pods, not seeds. In some cases, 50 percent or more of foliage eaten. Some fields with heavier feeding treated. (Stevenson). OKLAHOMA - Ranged 1-2 per row foot in scattered soybean fields in Wagoner County. (Okla. Coop. Sur.).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - ALABAMA - Larvae averaged 106 per 3 feet of row in large Marengo County soybean field. Fungal disease killing larvae in this field and several Montgomery County fields. (Yates, Henderson). GEORGIA - Light to heavy statewide week ending September 27. (Suber). NORTH CAROLINA - Defoliation heavy in some soybean fields; defoliation 40 percent in Johnston County field. Defoliation not more than 15 percent in 12 counties and 966 fields. Little damage expected. (Sprinkle, Hunt).

MEXICAN BEAN BEETLE (Epilachna varivestis) - NORTH CAROLINA - Defoliation 15+ percent in 11 of 12 northern Coastal Plain counties and 966 soybean fields. Counts decreased in all infested fields sampled. Heaviest in Currituck County, 60 acres in 4 consecutive fields averaged 35-percent defoliation. Defoliation 15 percent or more in 11 fields surveyed. (Sprinkle, Hunt).

COTTON

BOLL WEEVIL (Anthonomus grandis) - TEXAS - Moderate on cotton in San Angelo area. (McWhorter). LOUISIANA - Percent damaged squares by parish: Bossier 5, Caddo 8, Concordia 2, Franklin 2, Madison 1.4, Natchitoches 1.5, and Rapides 1.6. (Graves). GEORGIA - Light on cotton in most areas week ending September 27. Punctured squares 0-34 percent in several southern counties. (Womack).

BOLLWORMS (Heliothis spp.) - GEORGIA - Egg laying on cotton still light in most areas week ending September 27; some foliar feeding where no controls applied. (Womack). LOUISIANA - Percent H. virescens (tobacco budworm) on cotton by parish (remainder H. zea (bollworm) specimens): Bossier 94, Caddo 90, Concordia 100, Madison 96, Natchitoches 91, Tensas 96. Percent Heliothis spp. damaged squares by parish: Bossier 6, Caddo 5, Concordia 2.5, Franklin 2, Madison 1.4, Natchitoches 2.5, Rapides 2. (Graves). TEXAS - H. zea very light on cotton in Glasscock, Martin, Midland, Upton, and Howard Counties. Light to moderate in Pecos and Reeves Counties. (Neeb).

COLE CROPS

CABBAGE LOOPER (Trichoplusia ni) - TEXAS - Very heavy on broccoli, cauliflower, and cabbage in Medina County. (Stewart).

GENERAL VEGETABLES

A LEAFMINER FLY (Liriomyza sativae) - FLORIDA - Generally light on celery at Belle Glade, Palm Beach County. Averaged 1+ per petiole on 75 percent of petioles in commercial field of 100 acres, about 5-6 weeks from harvest. (Fla. Coop. Sur.).

DECIDUOUS FRUITS AND NUTS

PEACHTREE BORER (Sanninoidea exitiosa) - TEXAS - Very heavy in Limestone, Lampasas, and Hill Counties. (Hoelscher).

EUROPEAN CORN BORER (Ostrinia nubilalis) - MARYLAND - Larvae damaged 5-10 percent of apples in 20 acres of orchard near Salisbury, Wicomico County. Entire crop contaminated by larvae. (U. Md., Ent. Dept.).

PEAR PSYLLA (Psylla pyricola) - UTAH - Adults very numerous on pear foliage at Providence, Cache County. (Davis).

HICKORY SHUCKWORM (Laspeyresia caryana) - TEXAS - Very heavy on pecans in Gulf Coast counties. Light to moderate in Ward, Ector, and Midland Counties. Light in San Angelo area. (Cole et al.). OKLAHOMA - Heavy on pecans in Pontotoc County. (Okla. Coop. Sur.).

FALL WEBWORM (Hyphantria cunea) - TEXAS - Continued active on pecans at Uvalde with another generation about half grown. Small larvae on trees throughout Harris and Hays Counties. Light in San Angelo area. (Stewart et al.).

PECAN WEEVIL (Curculio caryae) - TEXAS - Heavy on late-maturing pecans in Hood, Erath, Hamilton, Eastland, and Comanche Counties. Light in San Angelo area. (Hoelscher, McWhorter).

CITRUS

ARMORED SCALES (Lepidosaphes spp.) - FLORIDA - L. beckii (purple scale) and L. gloverii (Glover scale) collected on 4 Citrus sp. trees at nursery in Live Oak, Suwannee County, by C.H. Webb and A.E. Graham September 23, 1975. Determined by G.W. Dekle. These are new county records. (Fla. Coop. Sur.).

SMALL FRUITS

A PYRALID MOTH (Macrotheca unipuncta) - MICHIGAN - One adult reared from larvae collected on domestic Vitus sp. at Scottdale, Berrien County, by R. Haynor June 28, 1975. Adult determined by D.C. Ferguson. This is a new State record. Adults and larvae found; larvae under loose bark associated with Pseudococcus maritimus (grape mealybug). (Liebherr).

ORNAMENTALS

AN ARMORED SCALE (Aonidiella taxus) - FLORIDA - Adults light on leaves on 5 percent of 20 Podocarpus sp. plants collected by C.H. Webb and A.E. Graham at nursery in Live Oak, Suwannee County, September 23, 1975. Determined by G.W. Dekle. This is a new county record. (Fla. Coop. Sur.).

AN ARMORED SCALE (Hemiberlesia lataniae) - FLORIDA - Collected on Ardisia sp. by C.H. Wenn and G.W. Dekle at nursery in Live Oak, Suwannee County, September 25, 1975. Determined by G.W. Dekle. This is a new county record. (Fla. Coop. Sur.).

FOREST AND SHADE TREES

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - KENTUCKY - Adults collected from pines in Martin County by R. Omer and B. Phillips August 20, 1975. Determined by M. Matuszewski; confirmed by D. Barnett. This is a new county record. (Barnett).

PINE NEEDLE SCALE (Chionaspis pinifoliae) - COLORADO - Heavy on ponderosa pine in Fort Collins and Estes Park areas, Larimer County. (Bruss).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - OREGON - Adults decreased in multilure traps second and third week of September. Second-generation flight near completion. Catches September 11-24 by county: Union 57 at Union, 738 at LaGrande; Malheur 5,358 at Nyssa; Crook 268 at Prineville; Deschutes 135 at Redmond; Jefferson 660 at Madras. (Penrose).

A NOTODONTID MOTH (Symmerista canicosta) - RHODE ISLAND - Defoliated about 100 acres of mostly oaks in western area. (Gardner).

MAN AND ANIMALS

SCREWWORM (Cochliomyia hominivorax) - Total of 786 cases reported from continental U.S. during September 14-20 as follows: Texas 734, New Mexico 22, Arizona 30. Total of 1,121 cases confirmed in portion of Barrier Zone in Republic of Mexico. Total of 409 cases reported in Mexico south of Barrier Zone. Number of sterile flies released this period totaled 183,975,000 as follows: Texas 153,924,000; Oklahoma 540,000; New Mexico 9,106,200; Arizona 20,404,800. None released in Republic of Mexico. (Vet. Serv.).

HORN FLY (Haematobia irritans) - OKLAHOMA - Averaged 150 per head on cattle in Payne County. (Okla. Coop. Sur.). TEXAS - Heavy in Hays County. Moderate to heavy on cattle in Pecos, Crockett, Terrell, and Brewster Counties. Moderate in San Angelo area. (McWhorter et al.). MISSISSIPPI - Adults 0-25 per herd of beef

cattle in Lamar County, 25-50 per head on 3 Monroe County herds. (Robinson).

FACE FLY (Musca autumnalis) - MISSISSIPPI - Ranged 0-15 per face on 3 herds of beef cattle in Monroe and Chickasaw Counties. (Robinson).

MOSQUITOES - NEVADA - Culex tarsalis and Culiseta inornata larvae heavy in Lemmon Valley area, Washoe County. (Minedew, Kamm). NEW HAMPSHIRE - Aedes vexans landing rate 0.2 females per minute September 27. Still emerging from local breeding sites and biting at dusk at Dover, Strafford County. (Burger).

HOUSEHOLDS AND STRUCTURES

PAVEMENT ANT (Tetramorium caespitum) - UTAH - Collected in residence at Salt Lake City, Salt Lake County, April 12, 1975, by J.T. Knighton. Determined by G.C. Wheeler. This is a new county record. (Hanson, Knowlton).

MISCELLANEOUS WILD PLANTS

WEEVILS (Tychius spp.) - UTAH - T. soltaui taken on Astragalus cibericus in Logan Canyon, Cache County, June 29, 1970. Two T. prolixus adults emerged from Astragalus utahensis (Utah loco) seed pods at Logan, Cache County, August 5, 1970. Collected by T.W. Green. Determined by R.E. Warner. These are new State records. (Knowlton).

STORED PRODUCTS

RED FLOUR BEETLE (Tribolium castaneum) - TEXAS - Infested 2 million pounds of stored peanuts in Comanche County. Controls applied. (Hoelscher).

BENEFICIAL INSECTS

A PUNCTUREVINE SEED WEEVIL (Microlarinus lareynii) - OKLAHOMA - Moderate on puncturevine at Alva, Woods County, October 1, 1975. Collected and determined by D.C. Arnold. This is a new county record. (Okla. Coop. Sur.).

A CHALCID WASP (Brachymeria ovata) - NEW MEXICO - Large series recovered from Hemileuca oliviae (range caterpillar) pupae collected in northern Lincoln County. (N.M. Coop. Rpt.).

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

GYPSY MOTH (Porthetria dispar) - FLORIDA - Male moth trapped in trailer camp east of Milton, Santa Rosa County, by E.N. Bishop September 9, 1975. (PPQ). WISCONSIN - Male moth trapped at Manitowoc, Manitowoc County, by R. Jakubek October 1, 1975. Both determined by E.L. Todd. Both first finds for county. (PPQ).

PINK BOLLWORM (Pectinophora gossypiella) - TEXAS - Light on cotton in Pecos, Reeves, El Paso, Glasscock, Martin, and Midland Counties. (Neeb).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - CALIFORNIA - Adults taken from pheromone traps on elms at Sonora, Tuolumne County, August 25, 1975. Collected by G. Rydell and R. Bingham. Determined by F. Andrews. This is a new county record. (Cal. Coop. Rpt.).

MEDITERRANEAN FRUIT FLY (Ceratitis capitata) - CALIFORNIA - Additional 2 flies detected September 30 (See CEIR 25(40):796) now reported as newly emerged male and female in McPhail trap 2 blocks from original site at Venice (See CORRECTIONS, p. 814), Los Angeles County. Second and third instar larvae, one each, found in peach at same location 2 blocks from original site by E. Davidson October 7. Determined by D. McCrae; confirmed by M. Wasbauer. Numerous tephritid larvae found in peach on adjacent premises same date. Additional flies detected at original site--2 males in McPhail trap October 2 and one male in Steiner trap October 3. Total identified finds in State to October 7: 6 newly emerged adults and 2 larvae. (PPQ).

HAWAII INSECT REPORT

General Vegetables - DIAMONDBACK MOTH (Plutella xylostella) larvae and pupae heavy in 6,000+ square feet of watercress at Pauwela, Maui. Defoliation heavy, 85 percent, on harvesting-age plants; moderate, 25 percent, in at least 1,000 square feet; and light in about 5,000 square feet of watercress. (Miyahira). TOMATO PINWORM (Keiferia lycopersicella) infestations variable in eggplants and tomatoes on Kauai. Counts and damage heavy in 0.25 and 0.50 acre of tomato at Wailua. At least 50 percent of leaves had infested leaflets. Larvae damaged about 35-50 percent of fruits. Infestations and damage light in small eggplant plantings at Wailua, Anahola, Hanapepe, Hanalei, and Kaumakani. LEAFMINER FLIES (Liriomyza spp.) light on eggplants and tomatoes throughout Kauai. Adults and larvae moderate in about 0.75 acre of cucumber at Wailua. At least 10-15 percent of older leaves heavily damaged, 70 percent of leaf surface mined. Adults 4-8 per leaf. Counts light, 3-4 mines per leaf, in 0.25 acre of snap beans at Hanapepe. Heavy leaf loss due to previous severe mining. (Melendez et al.).

Fruits and Ornamentals - Moderate CARMINE SPIDER MITE (Tetranychus cinnabarinus) infestations, 10-20 per square inch, in 5-10 acres of papaya at Moloaa, Kauai. Light, 1-10 per square inch, in adjoining fields where Stethorus siphonulus (a lady beetle) observed. (Melendez, Mau). Heavy BANANA SKIPPER (Erionota thrax) infestation at Hoolehua, Molokai, during September. Defoliated 50 percent of 80-100 banana trees. Eggs and larvae heavy. Light throughout other areas of island. Apanteles erionotae (a braconid wasp), again recovered from east Molokai and Kaunakakai. (Ah Sam).

DETECTION

New State Records

ANTS - UTAH - Lasius flavus taken from Rhus ovata (sugar sumac) debris 3 miles south of Bonanza, Uintah County, May 13, 1975. L. neoniger taken from beneath stone and dry horse manure 3 miles south of Bonanza, Uintah County, May 29, 1975. Collected by G.F. Knowlton and G.E. Bohart. Determined by G.C. Wheeler and J. Wheeler. Stenamma occidentale taken from cottonwood debris and mossy debris beneath Chrysothamnus (rabbit brush) in Leeds Canyon, Washington County, July 19, 1970. Collected by G.F. Knowlton. Determined by R.R. Snelling. (Knowlton).

WEEVILS (Tychius spp.) - UTAH - T. soltaui and T. prolixus in Cache County. (p. 811).

A PYRALID MOTH (Macrotheca unipuncta) - MICHIGAN - Berrien County. (p. 810).

New County Records

AN ANT (Stenamma occidentale) - UTAH - Taken from maple debris in Green Canyon, Cache County, September 10, 1973, and at Paradise, Cache County, April 16, 1974. Collected by G.F. Knowlton. Determined by G.C. Wheeler. Collected from among cottonwood debris and mossy debris beneath Chrysothamnus (rabbit brush) 3 miles south of Bonanza, Uintah County, May 13, 1975. Collected by G.E. Bohart and G.F. Knowlton. Determined by G.C. Wheeler and J. Wheeler. (Knowlton).

ARMORED SCALES - Aonidiella taxus, Hemiberlesia lataniae - FLORIDA - Suwannee (p. 810).

GLOVER SCALE (Lepidosaphes gloverii) FLORIDA - Suwannee (p. 809).

PAVEMENT ANT (Tetramorium caespitum) UTAH - Salt Lake (p. 811).

A PUNCTUREVINE SEED WEEVIL (Microlarinus lareynii) OKLAHOMA - Woods (p. 811).

PURPLE SCALE (L. beckii) FLORIDA - Suwannee (p. 809).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) CALIFORNIA - Tuolumne (p. 812).

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) NORTH DAKOTA - Stutsman, Sioux, Grant, Slope, Stark, Billings, Dunn, Mercer, Traill, Burleigh (p. 808).

SOUTHERN PINE BEETLE (Dendroctonus frontalis) KENTUCKY - Martin (p. 810).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) ALABAMA - Randolph; KENTUCKY - Clinton (p. 807).

SPOTTED ALFALFA APHID (Therioaphis maculata) NORTH DAKOTA - Benson, Eddy, Ramsey, Towner, Adams, Billings, Grant, Golden Valley, Hettinger, Mercer, Oliver, Slope, Stark, Pembina, Traill, Cavalier, Walsh, Grand Forks, Nelson, Burke, Renville, Bottineau (p. 807).

WESTERN CORN ROOTWORM (Diabrotica virgifera) NORTH DAKOTA - Stutsman, Foster. (p. 807).

CORRECTIONS

CEIR 22(33):535, 544, and 550, 1972 - A SAWFLY (Caliroa lineata) for WEST VIRGINIA should be A SAWFLY (Caliroa sp.) Delete new State record. (W. Va. Ins. Sur.).

CEIR 24(33):657, 1974 - A SAWFLY (Caliroa lineata) should be Caliroa quercuscoccineae for Summers County and Caliroa sp. for Raleigh and Monroe Counties. (W. Va. Ins. Sur.).

CEIR 25(30):623, 1975 - A SAWFLY (Caliroa lineata) should be Caliroa quercuscoccineae. (W. Va. Ins. Sur.).

CEIR 25(31):647 - A SAWFLY (Caliroa lineata) should be Caliroa quercuscoccineae for Summers County and Caliroa sp. for Mercer, McDowell, and Greenbrier Counties. (W. Va. Ins. Sur.).

CEIR 25(36):733, 746, 749 - "A BRACONID WASP ... new State record ..." should read "A BRACONID WASP ... new county record ..." (N.M. Coop. Rpt.).

CEIR 25(38):774 - HAWAII INSECT REPORT - "... Habrocytes ..." should read "... Habrocytus ..."

CEIR 25(40):796 - GRASSHOPPERS - " ... Boopedon nubilus ..." should read "... Boopedon nubilum ..."

CEIR 25(40):796 - MEDITERRANEAN FRUIT FLY (Ceratitis capitata) - CALIFORNIA - ... Culver City, ... should be ... Venice, ...

LIGHT TRAP COLLECTIONS

	Temperature °F	Precipitation (inches)	Type of trap (BL - blacklight, I - incandescent, MV - mercury vapor, O - other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt marsh caterpillar)	Euxoa auxiliaris (army cutworm)	Feltia subterranea (granulate cutworm)	Heliothis phloxiphaga (cotton budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (garlic webworm)	Loxostege rantalis (beet webworm)	Loxostege sticticalis (beet webworm)	Mamestra configurata (tomato hornworm)	Mamestra picta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
CALIFORNIA																							
Bellota 9/24	60-90		BL														22	786					
Clements 9/22	52-89		BL	1			22										49	519					
FLORIDA																							
Gainesville 9/26-10/2			BL	1			7	7	8						1		5	10	22	2			
KANSAS																							
Garden City 9/22, 24			BL	4		13			8							1							
MISSISSIPPI																							
Stoneville 9/26-10/2	44-85		2BL	4	1		3	210	735							1	10	153	76	13	421		
NORTH CAROLINA																							
Halifax 9/29, 10/1			BL						341														
Scotland Neck 9/26, 29, 10/1			BL						903														
WISCONSIN																							
Lancaster 9/23-10/2			BL						1							7	6						
Mazomanie 9/19-10/2			BL	2											3	3	7		1				

Weather of the week continued from page 806.

At the end of the day on Tuesday, September officially went on the books as a record dry month for Washington and Oregon. During September, only a trace of rain appeared in Seattle, Washington, where the normal monthly rainfall measures 1.99 inches. Astoria, Oregon, fared only slightly better with 0.04 inches compared to a normal 2.83 inches. Wednesday dawned cool and breezy throughout the central United States where clear skies kept temperatures at below normal levels. Morning lows plunged below freezing as far south as southwest Kansas. Readings in the 20's ranged from the central Rockies to northern Minnesota. In the afternoon, temperatures continued well below the seasonal normals, 50's and 60's in the Plains and 40's in the northern Great Lakes region. Exceptions to this cooling trend were the Pacific Northwest and parts of the Northern Plateau northwest, and parts of the Northern Plateau reported temperatures in the 80's. The Desert Southwest was still locked in summer with readings in the 90's. Fog and low clouds along the Pacific coast marred an otherwise sunny Wednesday in the western half of the Nation. In the East, scattered showers sprang up along a cold front in the Great Lakes region and lower Mississippi Valley.

In the Atlantic, hurricane Gladys turned northward and was no longer a threat to the mainland. A large high pressure center over Missouri kept Thursday's weather clear and cool across most of the Nation. Clouds persisted along the Pacific coast and a slow moving cold front scattered light rains from the Ohio Valley and northern New York along the Appalachians into Mississippi. Morning temperatures on Thursday erased previous record lows across the Nation's midsection, Lincoln, Nebraska--30 degrees, Springfield, Missouri--35 degrees, and Lubbock, Texas--40 degrees. Parts of the Great Lakes region and high areas in the central Rockies shivered with readings in the 20's. Clearing skies and polar air moving in from the West set the stage for a widespread area of frost or freeze warnings which were posted from southwest Missouri across the Ohio Valley and up the Appalachians to Vermont. Clear skies and cool air again highlighted the national weather picture on Friday. A sprawling high pressure system from the Atlantic coast to the Rockies resulted in more record lows, Pittsburg, Pennsylvania--31 degrees, Springfield, Missouri--33 degrees, and Little Rock, Arkansas--41 degrees. During the day, sunshine brightened most of the Nation though the frontal systems from the Pacific targeted clouds and showers from the northern and central Pacific coast to the northern Rockies. Cloudy skies with some showers were also noted along the southern Atlantic coast. Rainfall in the Pacific Northwest ended the dry spell that put September precipitation at a record low level in Washington and Oregon. Over the weekend, limited precipitation turned up on opposite corners of the Nation. In the Northwest, showers and gusts of wind over 60 m.p.h. swept through Montana and the Dakotas. In the Southeast, thunderstorms dotted coastal areas from Louisiana through Florida and up the Atlantic coast. Afternoon temperatures covered a wide range from the 40's in the northern New England States to the low 100's in the Desert Southwest. Hot air streaming north and east across the Plains States pushed temperatures into the upper 80's and 90's on Saturday. However in Texas, Sunday morning's low of 44 degrees put San Antonio at a record low temperature for the third day in a row.

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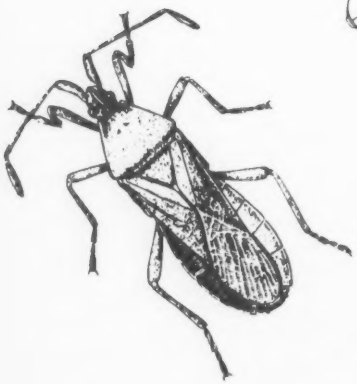
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